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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/921,446	08/01/2001	Denise L. Draper	337298001US1	6124

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BEYER WEAVER & THOMAS LLP
P.O. BOX 70250
OAKLAND, CA 94612-0250

EXAMINER	
TO, BAOQUOC N	
ART UNIT	**PAPER NUMBER**
2162	

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/921,446	DRAPER ET AL.	
	Examiner	Art Unit	
	Baoquoc N. To	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *22 April 2005*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *9-41* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *9-41* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *03/21/2005*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 15, 24 and 35-36 are amended in the amendment filed on 04/22/2005. Claims 9-41 are pending in this application.

Response to Arguments

2. Applicant's arguments filed 04/22/2005 have been fully considered but they are not persuasive.

Applicant argues that "Drapper neither discloses nor suggests a type value, as claimed... Specially, Drapper neither discloses nor suggests "a type value associated with each of the plurality of rows of the data structure, the type value identifying a set of one or more columns of the data structure associated with the corresponding row, thereby enabling the set of columns for each of the plurality of rows to vary based upon the type value for that row."

The examiner respectfully disagrees with the above argument. As state by Drapper, the table 62 includes one or more column each for storing identifier of entities A, B, C, D, E and G, and data for entities C and D.... wherein the A, B, C, D and D are the type value associated with row of the table 62. These values identify the set of columns of the table 62, e.g. A-id, B-id and these are having records associating with row within the same table 62, wherein these type of value in the rows are corresponding to the columns of the same data structure (col. 4, lines 29-44).

The applicant also argues "Drapper also does not disclose or suggest a type column for storing such a type value."

The examiner respectfully disagrees with the above argument. As disclosed in fig. 3 of Drapper, the A-id, B-id ... are the type value of the column wherein these columns stores value based on the column identifier.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 9-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Draper et al. (US. Patent No. 6,581,062 B1).

Regarding on claims 9, 15 and 24, Draper teaches a computer-readable medium containing a data structure, the data structure having rows and column, the data structure comprising: a plurality of rows of the data structure (table 62) (col. 4, lines 32-34); and a type value associated with each of the plurality of rows of the data structure (the A-id, B-id... are columns storing values for rows) (col. 4, lines 35-40) the type value

identifying a set of one or more columns of the data structure associated with the corresponding row, thereby enabling the set of columns for each f the plurality of rows to vary based upon the type value for that row (FIG. 3 illustrated a structured organization for storing the semi-structured data of FIG. 2a-2b, in accordance with one embodiment. As illustrated, structured organization 52' include four relational tables 62-68. Table 62 includes one column each for storing identifiers of entities A, B, C, D, E and G, and data for entities C and D wherein the relational table includes rows which identified the columns in the same tables) (coll. 4, lines 29-43).

Regarding on claims 10, 16 and 25, Draper teaches the computer-readable medium recited in claim 36 wherein a sub-column of one of the sub-rows of the nested data structure includes a further nested data structure (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 11, 17 and 26, Draper teaches the computer-readable medium recited in claim 9, wherein the data structure is a nested conditional relation data structure (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 12, 18 an 27, Draper teaches the computer-readable medium recited in claim 33 wherein at least two rows of the data structure contain

different type values in the type column (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 13, 19 and 28, Draper teaches the computer-readable medium of claim 37 wherein at least two sub-rows of the nested data structure contain different type values in the type sub-column.

Regarding on claims 14, 20 and 29, Draper teaches the computer-readable medium of claim 9 wherein the type value for each of the plurality of rows identifies a schema for a type (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 33, Draper teaches the computer-readable medium as recited in claim 9, the data structure comprising a type column for storing the type value for the display of rows (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 36, 38 and 40, Draper teaches the computer-readable medium of claim 9, the data structure further comprising:

A nested data structure, the nested data structure including sub-rows and sub-column, each of the sub-rows having a type value identifying a set of one or more sub-columns of the nested data structure associated with the corresponding sub-row, thereby enabling the set of sub-column for each of the plurality of sub-rows to vary based upon the type value for that sub-row (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 37, 39 and 41, Draper teaches the computer readable medium as recited in claim 36, wherein one of the sub-columns is a type sub-column including the type value for the sub-rows (table 64 includes one column each for storing identifiers for entity E, F and data for entities F, whereas table 66 includes one column each for entities F. Similarly, table 68 includes one column each for storing identifiers for entities A, H and I, and data for entity I" (col. 4, lines 33-43).

Regarding on claims 21 and 30, Draper teaches the method recited in claim 15 and 30 including:

Providing a data store in a first format (col. 9, lines 51-65);

Providing a mapping of the first format to a second format (col. 9, lines 51-65);

Receiving a query for a data store based on the second format (col. 9, lines 51-65);

Generating a query based on the first format using the received query and the providing mapping (col. 9, lines 51-65); and

Executing the generated query based on the first format against the provided data store in the first format to generate data wherein the generated data is stored in the created data structure (col. 9, lines 51-65).

Regarding on claims 22 and 31, Draper teaches the method recited in claims 21 and 31 including the data of the created data structure into data in the second format (col. 9, lines 51-65).

Regarding on claims 23 and 32, Draper teaches the method recited in claim 21 and 30 wherein the second format is an XML format (col. 9, lines 51-65).

Regarding in claims 34 and 35, Drapper teaches the method recited in claim 15, wherein storing the type value for each of the plurality of rows of the data structure comprises:

Storing the type value associated with each of the plurality of rows in a type column of the data structure (fig. 3).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Colby et al. (US. Patent No. 6,594,653 B2) Patent date: 07/15/2003.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

(703) 872-9306 [Official Communication]

Baoquoc N. To
June 22, 2005

JEAN M. CORRIELUS
PRIMARY EXAMINER